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00766.000052

PATENT APPLICATION

DAC #22

OFFICE OF PETITIONS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

MICHIO ICHIMURA, et al.

Application No.: 09/856,617

Filed: May 24, 2001

For: NOVEL POLYPEPTIDE

)
:
Examiner: Barbara A. Campbell
:
Group Art Unit:
:
Confirmation No. 3220
:
August 12, 2004

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Attn: Derek A. Putonen

Attorney Advisor

Office of PCT Legal Administration

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27 AUG 2004

Legal Staff
International Division

PETITION TO REVIVE UNAVOIDABLY
ABANDONED APPLICATION UNDER 37 CFR § 1.137(a)

Sir:

The procedural progress of this application has stalled. The undersigned would like to commence prosecution on the merits, but first needs to restore the application to pending status. By way of background, the salient events in the file are as follows.

(1) The application was filed in the Japan/Receiving Office on November 19, 1999.

(2) An English translation was filed in the US/DO to commence the United States National Phase on May 24, 2001. The papers included an executed declaration, a CRF and paper copy, among other things.

11/09/2004 CSMOOT 0000002 061205 09856617
Sale Ref: 0000002 DAH: 061205 09856617
01 FC:1452 110.00 DA

BEST AVAILABLE COPY

(3) On September 7, 2001 Applicants received a Notification of Missing Requirements (copy attached at Tab A) stating that the CRF was non-compliant because the nucleotide "counters" wrapped around. The error recurred at lines 35, 40, 45, 50, 55, 60, 65, 70,.... This error -- at each fifth line -- was as the only error identified in the Detected Error Printout.

(4) On September 24, 2001 Applicants timely responded by filing a corrected CRF with smaller margins, thus avoiding the wrapped nucleotide counters.

(5) On July 2, 2002 the Patent Office issued a Notification of Defective Response (copy attached at Tab B). That enclosed Detected Error Printout was identical (note the date at bottom right) to that provided with the September 7, 2001 Notification (3). This means either of two things: (a) The Patent Office did not receive -- or damaged -- Applicants' corrected CRF (since the CRF submitted September 24 did not contain those errors. See partial copy attached at Tab C) or (b) the Patent Office enclosed the wrong Detected Error Printout. It is now seen that the latter is what happened, but the undersigned had no reason at the time to expect the Official Action was at all defective.

(6) Presuming point (a) above, Applicants sent on August 2, 2002 to the Patent Office additional copies of their previously submitted September 24, 2001 enclosures.

(7) A second Notification of Defective Response (copy attached at Tab D) issued on January 9, 2003. A new Detected Error Printout accompanied the paper which now identified errors at lines 712, 716, 718, 2165, 2167, 2369, 2384, 2399, 2414, 2622, 2637, 2652, 2667, 2878, 2893, 2908, 2923, 3137, 3152, 3167, 3182, 3484, 3499,

3514, 3529, 3544, 3559, 3574, 3739 and 3753. These were each errors present in the original May 24, 2001 CRF (2) but were never identified in either of the two previous Detected Error Printouts ((3) and (5)).

(8) Applicants responded on January 22, 2003, attending to the errors noted in (7).

(9) On June 6, 2003 Applicants received a Notification of Defective Response Abandonment (copy attached at Tab E). The Notification states Applicants failed to correct an error at line 2036 (which, again, was always present but had never earlier been complained of). The stated basis of rejection was that

Applicant has failed to properly respond to the notification of MISSING REQUIREMENTS (Form PCT/DO/EO/905), mailed 09/07/2001 within the time period set therein.
(Emphasis added.)

(10) Of course, Applicants did properly respond to the September 7, 2001 Notification and so, on June 19, 2003 filed a Request for Withdrawal of Notification of Defective Response Abandonment pointing out that such Response was, in fact, received in the Patent Office on September 25, 2001.

(11) On January 7, 2004 Applicants filed a Request for Decision on Request for Withdrawal of Abandonment.

(12) A Decision on Petition (undated) was received January 30, 2004 dismissing the Request for Withdrawal on the basis that Applicants' January 22, 2003 sequence listing was not a proper response, noting that

applicant has misinterpreted the Form PCT/DO/EO/918 mailed 06 June 2003. The USPTO does not dispute that

applicant filed a response on 25 September 2001. This filing was received and resulted in the preparation and mailing of a Form PCT/DO/EO/916 mailed 02 July 2002. In addition, applicant subsequently filed responses on 05 August 2002 and 22 January 2003. However, none of the sequence listing filed to date has been in compliance with 37 CFR 1.821-1.825. As such, while timely, the responses were not proper and the application was therefore held to be abandoned. Enclosed with their decision is a courtesy copy of the most recently prepared CRF Problem Report.

Initially, it is not well-understood how the undersigned "misinterpreted" the June 6, 2003 form. The paper plainly stated there was no proper response to the September 7, 2001 Notification of Missing Requirements. Applicants responded accordingly.

Additionally, it is noted that the "courtesy copy" of the CRF Problem Report provided by the PTO on January 30, 2004 had nothing to do with the Notification mailed September 7, 2001. Accordingly, the basis asserted in the June 6, 2003 Notification of Defective Response (9) is without foundation.

(13) In any event, Applicants filed a Request for Reconsideration on February 4, 2004 pointing out that the error relied upon in the Decision and upon which abandonment was founded because Applicant did not correct it earlier, was always in the CRF but was not earlier complained of by the Patent Office. Applicants explained their January 22, 2003 submission (8) attended to all the problems pointed out by the Patent Office up to that date; the Patent Office made no mention of the existent error noted by the Decision (12) before June 6, 2003. The Request for Consideration now attended to this latest CRF error.

Applicants are being penalized for not hitting a moving target. All Applicants sought was a Withdrawal of Abandonment and the opportunity to submit a paper copy and CRF to address the Patent Office's latest concerns.

(14) In response, the Patent Office issued on May 17, 2004 a Decision which states

Applicant is correct that the error found in the Computer-Readable Form (CRF) filed 22 January 2003 had not occurred in previously filed CRF.

This is not entirely accurate; the error was found in all prior CRFs but the Patent Office did not complain of it until June 6, 2003.

In any event, the Decision states that the presently-filed CRF (13) will be forwarded for examination. To date, however, it appears no such examination has occurred and so, there has still been no determination as to whether or not such constitutes a "proper reply".

(15) Accordingly, to timely facilitate such review, Applicants are filing the present Petition. Pursuant to 37 CFR §1.137(a)(1), the previously filed CRF and paper copy are the necessary reply. Pursuant to 37 CFR § 1.137(a)(2), a check in the amount of \$110.00 is enclosed to cover the petition fee under 37 CFR § 1.17(l). Pursuant to 37 CFR § 1.137(a)(3) the entire delay in filing this paper has above shown to be unavoidable and, pursuant to 37 CFR § 1.137(a)(4), no terminal disclaimer is required.

The Assistant Commissioner is respectfully requested to restore this application to pending status and forward it for examination on the merits.

The PTO did not receive the following listed item(s) Check \$110.00

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our below listed address.

Respectfully submitted,



Attorney for Applicants
Lawrence S. Perry
Registration No. 31,865

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-2200
Facsimile: (212) 218-2200

LSP\nfr\ac

NY_MAIN 444716v1



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box PCT
United States Patent and Trademark Office
Washington, D.C. 20231
www.uspto.gov

U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/856617	ICHIMURA	M 766.52
		INTERNATIONAL APPLICATION NO.
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112		PCT/JP99/06487
FILE NO.	ATTORNEY	I.A. FILING DATE
94652	LSR	19 NOV 99
DUE DATE	DOCKETED	PRIORITY DATE
11/20/01	911342	24 NOV 98

DATE MAILED: 07 SEP 2001

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

1. The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated Office (37 CFR 1.494) an Elected Office (37 CFR 1.495):

- U.S. Basic National Fee. Indication of Small Entity Status.
 Copy of the international application. Translation of the international application into English.
 Oath or Declaration of inventors(s). Translation of Article 19 amendments into English.
 Copy of Article 19 amendments. Other:
 Priority Document.
 The International Preliminary Examination Report in English and its Annexes, if any.
 Translation of Annexes to the International Preliminary Examination Report into English.

2. Applicant has requested early processing under 35 U.S.C. 371(f) but has not filed the following indicated items and/or the indicated items in paragraph 3 below. The Basic National Fee and the copy of the international application must be filed prior to 20 or 30 months from the priority date to avoid abandonment.

- U.S. Basic National Fee. Copy of the international application.

3. The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- a. Translation of the application into English. A processing fee will be required if submitted later than the appropriate 20 or 30 months from the priority date.
 The current translation is defective for the reasons indicated on the attached Notice of Defective Translation.
b. Processing fee for providing the translation of the application and/or the Annexes later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(f)).
c. Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), properly identifying the application (preferably by the International application number and international filing date). A surcharge will be required if submitted later than the appropriate 20 or 30 months from the priority date.
 The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) for the reasons indicated on the attached PCT/DO/EO/917.
d. Surcharge for providing the oath or declaration later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(e)).

4. Additional claim fees of \$ _____ as a large entity small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due (37 CFR 1.492(g)). See attached PTO-875.

5. Applicant has not submitted the required sequence listing pursuant to 37 CFR 1.821-1.825. See attached PCT/DO/EO/920.

ALL OF THE ITEMS SET FORTH IN 3(a)-3(d), 4 AND 5 ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 22 OR 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

6. If box 3a or 3c is checked, a translation of the Annexes **MUST** be submitted no later than the time period set above or the Annexes will be cancelled. A processing fee will be required if submitted later than 20 or 30 months from the priority date.

7. The Article 19 amendments are cancelled since a translation was not provided by the appropriate 20 (37 CFR 1.494(d)) or 30 (37 CFR 1.495(d)) months from the priority date.

Applicant is reminded that any communication to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above. (37 CFR 1.5)

A copy of this notice MUST be returned with this response.

Enclosed: PCT/DO/EO/917 Notice of Defective Translation
 PTO-875 PCT/DO/EO/920

Barbara A. Campbell



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box PCT
United States Patent and Trademark Office
Washington, D.C. 20231
www.uspto.gov

U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
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INTERNATIONAL APPLICATION NO.		
PCT/JP99/06487		
I.A. FILING DATE	PRIORITY DATE	
19 NOV 99	24 NOV 98	
DATE MAILED: 07 SEP 2001		

FITZPATRICK CELLA HARPER & SCINTO
30 ROCKEFELLER PLAZA
NEW YORK, NY 10112

**NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS
CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE
DISCLOSURES**

Applicant has submitted papers under 35 U.S.C. 371 to enter the national stage in the United States of America. The items indicated below, however, are missing. The period within which to correct the deficiency noted below and avoid abandonment is set forth in the accompanying Notification.

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):

- The application fails to comply with the requirements of 37 CFR 1.821-1.825.
- This application does not contain, a "Sequence Listing" as a separate part of the disclosure on paper copy or compact disc, as required by 37 CFR 1.821(c).
- A copy of the "Sequence Listing" in computer readable format has not been submitted as required by 37 CFR 1.821(e).
- A copy of the "Sequence Listing" in computer readable form has been submitted. The content of the computer readable form, however, does not comply with the requirements of 37 CFR 1.822 and/or 1.832, as indicated on the attached marked-up copy of the "Raw Sequence Listing."
- The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
- The paper copy or compact disc of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).
- Other: _____

APPLICANT MUST PROVIDE:

- An initial or substitute computer readable form (CRF) of the "Sequence Listing."
- An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- A statement that the contents of the paper or compact disc and the computer readable form are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825(d).

FOR QUESTIONS REGARDING COMPLIANCE WITH THESE REQUIREMENTS, PLEASE CALL:

- (703) 308-4216, for Rules interpretation,
- (703) 308-4212, for CRF submission help,
- (703) 287-0200, for PatentIn software help.

Barbara A. Campbell

Telephone: 703-305-3631

RAW SEQUENCE LISTING
ERROR REPORT

R. White

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/856,617

Source: P45109

Date Processed by STIC: 6/12/2021

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows-based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617

DATE: 06/12/2001
TIME: 12:25:27

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Output Set: N:\CRF3\06122001\I856617.raw

4 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.,
6 <120> TITLE OF INVENTION: NOVEL POLYPEPTIDE
8 <130> FILE REFERENCE: 11169
-> 10 <140> CURRENT APPLICATION NUMBER: US/09/856,617
-> 11 <141> CURRENT FILING DATE: 2001-05-24
13 <150> PRIOR APPLICATION NUMBER: H10-332484
14 <151> PRIOR FILING DATE: 1998-11-24
16 <150> PRIOR APPLICATION NUMBER: H11-248442
17 <151> PRIOR FILING DATE: 1999-09-02
19 <160> NUMBER OF SEQ ID NOS: 18
20 <170> SOFTWARE: PatentIn Ver. 2.0

Does Not Comply
Corrected Diskette Needed

STORED SEQUENCES

22 <210> SEQ ID NO: 1
23 <211> LENGTH: 4173
24 <212> TYPE: DNA
25 <213> ORGANISM: Mouse
27 <220> FEATURE:
28 <221> NAME/KEY: CDS
29 <222> LOCATION: (107)..(4021)
31 <400> SEQUENCE: 1
--> 32 ggcctggcgccggcacatcctaaggtagcggctgcctgaaatgtacatgttttgcgtggat
33 60
--> 35 tcggggcccgaaacgagcccgccgtggcgccggtaatggatggatggatggatggatggat
36 115
Met Met Glu
37 1
38
--> 40 atc cag atg gac gag gga gga ggt gtg gtg gtg tac caa gac gac tac
41 163
42 Ile Gln Met Asp Glu Gly Gly Val Val Val Tyr Gln Asp Asp Tyr
43 5 10 15
--> 45 tgc tgc ggc tgc gtc atg tgc gag cgt gtg tgc ggc ctg gcg ggc tcc
46 211
47 Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu Ala Gly Ser
48 20 25 30 35
--> 50 atc tac cgc gag ttc gag cgc ctc att cac tgc tat gac gag gag gtg
51 259
52 Ile Tyr Arg Glu Phe Glu Arg Leu Ile His Cys Tyr Asp Glu Glu Val
53 40 45 50
--> 55 gtc aag gag ctc atg ccg ctg gtg gtg aac gtg ctg gag aac ctt gac
56 307
57 Val Lys Glu Leu Met Pro Leu Val Val Asn Val Leu Glu Asn Leu Asp
58 55 60 65
--> 60 tgc gtg ctg agc gag aac cag gag cac gag gtg gag ctg gag ctc cta
61 355

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617

DATE: 06/12/2001
TIME: 12:25:27

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Output Set: N:\CRF3\06122001\I856617.raw

62 Ser Val Leu Ser Glu Asn Gln Glu His Glu Val Glu Leu Glu Leu Leu
 63 70 75 80
 -> 65 cgc gag gac aac gag cag ctg ctc acg caa tac gag cgc gag aag gcg
 66 403
 67 Arg Glu Asp Asn Glu Gln Leu Leu Thr Gln Tyr Glu Arg Glu Lys Ala
 68 85 90 95
 -> 70 ctg cgc aaa cag gcc gag gag aaa ttc atc gaa ttt gaa gat gcc ttg
 71 451
 72 Leu Arg Lys Gln Ala Glu Glu Lys Phe Ile Glu Phe Glu Asp Ala Leu
 73 100 105 110 115
 -> 75 gaa caa gag aag aaa gaa ctc cag atc cag gta gaa cat tat gag ttt
 76 499
 77 Glu Gln Glu Lys Lys Glu Leu Gln Ile Gln Val Glu His Tyr Glu Phe
 78 120 125 130
 -> 80 cag aca cgc cag ctg gag cta aag gcc aaa aac tat gca gat cag att
 81 547
 82 Gln Thr Arg Gln Leu Glu Leu Lys Ala Lys Asn Tyr Ala Asp Gln Ile
 83 135 140 145
 -> 85 tcc cga ctg gag gaa cga gaa tcg gag atg aag aag gaa tac aat gcc
 86 595
 87 Ser Arg Leu Glu Glu Arg Glu Ser Glu Met Lys Lys Glu Tyr Asn Ala
 88 150 155 160
 -> 90 ctg cac cag cgg cac aca gag atg atc cag acc tat gtg gaa cac att
 91 643
 92 Leu His Gln Arg His Thr Glu Met Ile Gln Thr Tyr Val Glu His Ile
 93 165 170 175
 -> 95 gaa aga tcc aag atg cag caa gtt ggg ggt agc ggc caa aca gaa agc
 96 691
 97 Glu Arg Ser Lys Met Gln Gln Val Gly Gly Ser Gly Gln Thr Glu Ser
 98 180 185 190 195
 --> 100 agc ctg ccc ggg cgg agg aag gag cgt ccc acc tct ctg aat gtc ttc
 101 739
 102 Ser Leu Pro Gly Arg Arg Lys Glu Arg Pro Thr Ser Leu Asn Val Phe
 103 200 205 210
 --> 105 ccc ctg gct gat ggc atg tgt cca aac gat gag atg tct gag tca ggc
 106 787
 107 Pro Leu Ala Asp Gly Met Cys Pro Asn Asp Glu Met Ser Glu Ser Gly
 108 215 220 225
 --> 110 cag tcc tca gca gct gca aca ccc agt acc acc aca ggt acc aag tcc aac
 111 835
 112 Gln Ser Ser Ala Ala Ala Thr Pro Ser Thr Thr Gly Thr Lys Ser Asn
 113 230 235 240
 --> 115 aca ccc acg tcc tcc gtg ccc tca gca gca gtc acg cca ctc aac gag
 116 883
 117 Thr Pro Thr Ser Ser Val Pro Ser Ala Ala Val Thr Pro Leu Asn Glu
 118 245 250 255
 --> 120 agc cta cag ccc ctg ggg gac tat gtc agt gtc aca aag aac aac aag
 121 931
 122 Ser Leu Gln Pro Leu Gly Asp Tyr Val Ser Val Thr Lys Asn Asn Lys

*Sample
Gene*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617

DATE: 06/12/2001
TIME: 12:25:27

Input Set : A:\766.52 Seq. Listing.txt
Output Set: N:\CRF3\06122001\I856617.raw

123 260 265 270 275
--> 125 cag gcc cga gag aag cgc aat agc cgt aac atg gag gtc cag gtc acc
126 979
127 Gln Ala Arg Glu Lys Arg Asn Ser Arg Asn Met Glu Val Gln Val Thr
128 280 285 290
--> 130 caa gag atg cgg aac gtc agt atc ggc atg ggc agc agt gac gag tgg
131 1027
132 Gln Glu Met Arg Asn Val Ser Ile Gly Met Gly Ser Ser Asp Glu Trp
133 295 300 305
--> 135 tcc gat gtt cag gac att atc gac tcc acc cca gag ctg gat gtg tgt
136 1075
137 Ser Asp Val Gln Asp Ile Ile Asp Ser Thr Pro Glu Leu Asp Val Cys
138 310 315 320
--> 140 cct gaa acc cgt ctg gag cgc aca gga agc agc cca acc cag gga att
141 1123
142 Pro Glu Thr Arg Leu Glu Arg Thr Gly Ser Ser Pro Thr Gln Gly Ile
143 325 330 335
--> 145 gta aac aaa gct ttt gga atc aac act gac tcc ttg tat cac gaa ctc
146 1171
147 Val Asn Lys Ala Phe Gly Ile Asn Thr Asp Ser Leu Tyr His Glu Leu
148 340 345 350 355
--> 150 tcc acg gcg gga tct gag gtc atc ggg gat gtg gac gag gga gct gat
151 1219
152 Ser Thr Ala Gly Ser Glu Val Ile Gly Asp Val Asp Glu Gly Ala Asp
153 360 365 370
--> 155 ctc cta ggg gag ttt tca gtg cgc gat gat ttt ttt gga atg ggc aaa
156 1267
157 Leu Leu Gly Glu Phe Ser Val Arg Asp Asp Phe Gly Met Gly Lys
158 375 380 385
--> 160 gaa gtg ggg aac ctg ctg ctg gag aac tca cag ctt cta gag aca aaa
161 1315
162 Glu Val Gly Asn Leu Leu Glu Asn Ser Gln Leu Leu Glu Thr Lys
163 390 395 400
--> 165 aat gct tta aat gta gtg aag aat gac ctc att gct aag gtt gac caa
166 1363
167 Asn Ala Leu Asn Val Val Lys Asn Asp Leu Ile Ala Lys Val Asp Gln
168 405 410 415
--> 170 ctg tca gga gaa cag gag gtc ctg aag ggt gag ctg gaa gca gcc aag
171 1411
172 Leu Ser Gly Glu Gln Glu Val Leu Lys Gly Glu Leu Glu Ala Ala Lys
173 420 425 430 435
--> 175 caa gcg aaa gtc aag ctg gag aac cga atc aaa gag ctt gaa gaa gaa
176 1459
177 Gln Ala Lys Val Lys Leu Glu Asn Arg Ile Lys Glu Leu Glu Glu
178 440 445 450
--> 180 ctg aag aga gtc aag tca gag gca gta act gcc cgc cgt gag ccc aga
181 1507
182 Leu Lys Arg Val Lys Ser Glu Ala Val Thr Ala Arg Arg Glu Pro Arg
183 455 460 465

*same
gene*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617

DATE: 06/12/2001
TIME: 12:25:27

Input Set : A:\766.52 Seq. Listing.txt
Output Set: N:\CRF3\06122001\I856617.raw

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186 1555
187 Glu Glu Val Glu Asp Val Ser Ser Tyr Leu Cys Thr Glu Leu Asp Lys
188 470 475 480
--> 190 atc ccc atg gcc cag cgc cga cgc ttc aca cgg gtg gag atg gcc cga
191 1603
192 Ile Pro Met Ala Gln Arg Arg Arg Phe Thr Arg Val Glu Met Ala Arg
193 485 490 495
--> 195 gtg ctc atg gaa cgc aac cag tac aag gaa cgc ctc atg gag ctg cag
196 1651
197 Val Leu Met Glu Arg Asn Gln Tyr Lys Glu Arg Leu Met Glu Leu Gln
198 500 505 510 515
--> 200 gag gct gtg agg tgg act gaa atg atc aga gca tca agg gaa cac cca
201 1699
202 Glu Ala Val Arg Trp Thr Glu Met Ile Arg Ala Ser Arg Glu His Pro
203 520 525 530
--> 205 tct gtc cag gag aag aag tcc acc atc tgg cag ttc ttt agt cgc
206 1747
207 Ser Val Gln Glu Lys Lys Ser Thr Ile Trp Gln Phe Phe Ser Arg
208 535 540 545
--> 210 ctc ttc agc tcc tca tct agc ccc cct ccg gcc aaa cga tcc tac cca
211 1795
212 Leu Phe Ser Ser Ser Ser Pro Pro Pro Ala Lys Arg Ser Tyr Pro
213 550 555 560
--> 215 tct gtg aac att cac tac aag tca ccc act gca gct ggc ttt agc cag
216 1843
217 Ser Val Asn Ile His Tyr Lys Ser Pro Thr Ala Ala Gly Phe Ser Gln
218 565 570 575
--> 220 cgt cgc agc cat gct ttg tgc cag atc tca gcc ggc agc agg ccc ctg
221 1891
222 Arg Arg Ser His Ala Leu Cys Gln Ile Ser Ala Gly Ser Arg Pro Leu
223 580 585 590 595
--> 225 gag ttc ttc cct gat gat gac tgc acc tct tct gcc cgg cgg gag cag
226 1939
227 Glu Phe Phe Pro Asp Asp Cys Thr Ser Ser Ala Arg Arg Glu Gln
228 600 605 610
--> 230 aag cgg gag cag tac cgc cag gtt cgt gaa cac gtg cgc aat gat gac
231 1987
232 Lys Arg Glu Gln Tyr Arg Gln Val Arg Glu His Val Arg Asn Asp Asp
233 615 620 625
--> 235 ggg agg ctg cag gcc tgt ggg tgg agc ctg cct gcc aag tac aag cag
236 2035
237 Gly Arg Leu Gln Ala Cys Gly Trp Ser Leu Pro Ala Lys Tyr Lys Gln
238 630 635 640
--> 240 ctg agc ccc aat gga ggc cag gaa gac acc cgg atg aaa aat gtg cct
241 2083
242 Leu Ser Pro Asn Gly Gly Gln Glu Asp Thr Arg Met Lys Asn Val Pro
243 645 650 655
--> 245 gtc cct gtg tac tgt cgc cct ctg gtg gag aag gac cct tcg aca aag
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FYI

Please review the

Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.



UNITED STATES PATENT AND TRADEMARK OFFICE

JUL 10
2002

Commissioner for Patents, Box PCT
United States Patent and Trademark Office
Washington, D.C. 20231
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/856,617	Michio Ichimura	766.52
INTERNATIONAL APPLICATION NO.		
PCT/JP99/06487		
I.A. FILING DATE		PRIORITY DATE
11/19/1999		11/24/1998
CONFIRMATION NO. 3220		
371 FORMALITIES LETTER		
OC00000008386527		

Date Mailed: 07/02/2002

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fee
- Priority Document
- Assignee Statement
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Oath or Declaration
- Preliminary Amendments
- Request for Immediate Examination

FILE NO. 09766.0320052
ATTORNEY UP
DUE DATE 07/02
DOCKETED 7/10/02 mu

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Additionally the following defects have been observed:

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):

- See attached RSL Error Report.
- APPLICANT MUST PROVIDE:
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
 - A statement that the contents of the paper or compact disc and the computer readable form are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825(d).
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov
- Additional claim fees of **\$90** as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$90** for a Large Entity:

- Total additional claim fee(s) for this application is **\$90**
 - **\$90** for 33 total claims over 20.

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

BARBARA A CAMPBELL

Telephone: (703) 305-3631

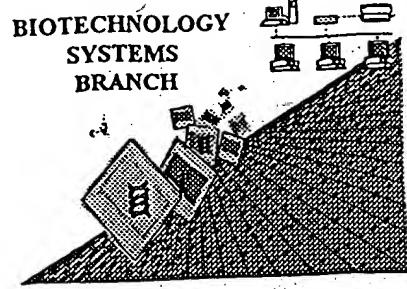
PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/856,617	PCT/JP99/06487	766.52

J. Campbell

Re-run

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/856,617
Source: P4709
Date Processed by STIC: 6/12/2021

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617

DATE: 06/12/2001
TIME: 12:25:27

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Output Set: N:\CRF3\06122001\I856617.raw

4 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.,
6 <120> TITLE OF INVENTION: NOVEL POLYPEPTIDE
8 <130> FILE REFERENCE: 11169
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/856,617
C--> 11 <141> CURRENT FILING DATE: 2001-05-24
13 <150> PRIOR APPLICATION NUMBER: H10-332484
14 <151> PRIOR FILING DATE: 1998-11-24
16 <150> PRIOR APPLICATION NUMBER: H11-248442
17 <151> PRIOR FILING DATE: 1999-09-02
19 <160> NUMBER OF SEQ ID NOS: 18
20 <170> SOFTWARE: PatentIn Ver. 2.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

22 <210> SEQ ID NO: 1
23 <211> LENGTH: 4173
24 <212> TYPE: DNA
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27 <220> FEATURE:
28 <221> NAME/KEY: CDS
29 <222> LOCATION: (107)..(4021)
31 <400> SEQUENCE: 1
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33 60
E--> 35 tcgggccccg gaacgagccg cgctggcgcc ggccggcgta gcccgatg atg gag
36 115
37 Met Met Glu
38 1
E--> 40 atc cag atg gac gag gga gga ggt gtg gtg tac caa gac gac tac
41 163
42 Ile Gln Met Asp Glu Gly Gly Gly Val Val Val Tyr Gln Asp Asp Tyr
43 5 10 15
E--> 45 tgc tcg ggc tcg gtc atg tcg gag cgt gtg tcg ggc ctg gcg ggc tcc
46 211
47 Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu Ala Gly Ser
48 20 25 30 35
E--> 50 atc tac cgc gag ttc gag cgc ctc att cac tgc tat gac gag gag gtg
51 259
52 Ile Tyr Arg Glu Phe Glu Arg Leu Ile His Cys Tyr Asp Glu Glu Val
53 40 45 50
E--> 55 gtc aag gag ctc atg ccg ctg gtg gtg aac gtg ctg gag aac ctt gac
56 307
57 Val Lys Glu Leu Met Pro Leu Val Val Asn Val Leu Glu Asn Leu Asp
58 55 60 65
E--> 60 tcg gtg ctg agc gag aac cag gag cac gag gtg gag ctg gag ctc cta
61 355

global
format error
→ 60
→ 115
↓
all item 1
in Error
Summary
sheet

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617

DATE: 06/12/2001
TIME: 12:25:27

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 63 70 75 80
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 66 403
 67 Arg Glu Asp Asn Glu Gln Leu Leu Thr Gln Tyr Glu Arg Glu Lys Ala
 68 85 90 95
 E--> 70 ctg cgc aaa cag gcc gag gag aaa ttc atc gaa ttt gaa gat gcc ttg
 71 451
 72 Leu Arg Lys Gln Ala Glu Glu Lys Phe Ile Glu Phe Glu Asp Ala Leu
 73 100 105 110 115
 E--> 75 gaa caa gag aag aaa gaa ctc cag atc cag gta gaa cat tat gag ttt
 76 499
 77 Glu Gln Glu Lys Glu Leu Gln Ile Gln Val Glu His Tyr Glu Phe
 78 120 125 130
 E--> 80 cag aca cgc cag ctg gag cta aag gcc aaa aac tat gca gat cag att
 81 547
 82 Gln Thr Arg Gln Leu Glu Leu Lys Ala Lys Asn Tyr Ala Asp Gln Ile
 83 135 140 145
 E--> 85 tcc cga ctg gag gaa cga gaa tcg gag atg aag aag gaa tac aat gcc
 86 595
 87 Ser Arg Leu Glu Glu Arg Glu Ser Glu Met Lys Lys Glu Tyr Asn Ala
 88 150 155 160
 E--> 90 ctg cac cag cgg cac aca gag atg atc cag acc tat gtg gaa cac att
 91 643
 92 Leu His Gln Arg His Thr Glu Met Ile Gln Thr Tyr Val Glu His Ile
 93 165 170 175
 E--> 95 gaa aga tcc aag atg cag caa gtt ggg ggt agc ggc caa aca gaa agc
 96 691
 97 Glu Arg Ser Lys Met Gln Gln Val Gly Gly Ser Gly Gln Thr Glu Ser
 98 180 185 190 195
 E--> 100 agc ctg ccc ggg cgg agg aag gag cgt ccc acc tct ctg aat gtc ttc
 101 739
 102 Ser Leu Pro Gly Arg Arg Lys Glu Arg Pro Thr Ser Leu Asn Val Phe
 103 200 205 210
 E--> 105 ccc ctg gct gat ggc atg tgc cca aac gat gag atg tct gag tca ggc
 106 787
 107 Pro Leu Ala Asp Gly Met Cys Pro Asn Asp Glu Met Ser Glu Ser Gly
 108 215 220 225
 E--> 110 cag tcc tca gca gct gca aca ccc agt acc aca ggt acc aag tcc aac
 111 835
 112 Gln Ser Ser Ala Ala Ala Thr Pro Ser Thr Thr Gly Thr Lys Ser Asn
 113 230 235 240
 E--> 115 aca ccc acg tcc tcc gtc cca tca gca gca gtc acg cca ctc aac gag
 116 883
 117 Thr Pro Thr Ser Ser Val Pro Ser Ala Ala Val Thr Pro Leu Asn Glu
 118 245 250 255
 E--> 120 agc cta cag ccc ctg ggg gac tat gtc agt gtc aca aag aac aac aag
 121 931
 122 Ser Leu Gln Pro Leu Gly Asp Tyr Val Ser Val Thr Lys Asn Asn Lys

*Sample
Printed*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617

DATE: 06/12/2001
TIME: 12:25:27

Input Set : A:\766.52 Seq. Listing.txt
Output Set: N:\CRF3\06122001\I856617.raw

123 260 265 270 275
E--> 125 cag gcc cga gag aag cgc aat agc cgt aac atg gag gtc cag gtc acc
126 979
127 Gln Ala Arg Glu Lys Arg Asn Ser Arg Asn Met Glu Val Gln Val Thr
128 280 285 290
E--> 130 caa gag atg cgg aac gtc agt atc ggc atg ggc agc agt gac gag tgg
131 1027
132 Gln Glu Met Arg Asn Val Ser Ile Gly Met Gly Ser Ser Asp Glu Trp
133 295 300 305
E--> 135 tcc gat gtt cag gac att atc gac tcc acc cca gag ctg gat gtg tgt
136 1075
137 Ser Asp Val Gln Asp Ile Ile Asp Ser Thr Pro Glu Leu Asp Val Cys
138 310 315 320
E--> 140 cct gaa acc cgt ctg gag cgc aca gga agc agc cca acc cag gga att
141 1123
142 Pro Glu Thr Arg Leu Glu Arg Thr Gly Ser Ser Pro Thr Gln Gly Ile
143 325 330 335
E--> 145 gta aac aaa gct ttt gga atc aac act gac tcc ttg tat cac gaa ctc
146 1171
147 Val Asn Lys Ala Phe Gly Ile Asn Thr Asp Ser Leu Tyr His Glu Leu
148 340 345 350 355
E--> 150 tcc acg gcg gga tct gag gtc atc ggg gat gtg gac gag gga gct gat
151 1219
152 Ser Thr Ala Gly Ser Glu Val Ile Gly Asp Val Asp Glu Gly Ala Asp
153 360 365 370
E--> 155 ctc cta ggg gag ttt tca gtg cgc gat gat ttt ttt gga atg ggc aaa
156 1267
157 Leu Leu Gly Glu Phe Ser Val Arg Asp Asp Phe Gly Met Gly Lys
158 375 380 385
E--> 160 gaa gtg ggg aac ctg ctg gag aac tca cag ctt cta gag aca aaa
161 1315
162 Glu Val Gly Asn Leu Leu Leu Glu Asn Ser Gln Leu Leu Glu Thr Lys
163 390 395 400
E--> 165 aat gct tta aat gta gtg aag aat gac ctc att gct aag gtt gac caa
166 1363
167 Asn Ala Leu Asn Val Val Lys Asn Asp Leu Ile Ala Lys Val Asp Gln
168 405 410 415
E--> 170 ctg tca gga gaa cag gag gtc ctg aag ggt gag ctg gaa gca gcc aag
171 1411
172 Leu Ser Gly Glu Gln Glu Val Leu Lys Gly Glu Leu Glu Ala Ala Lys
173 420 425 430 435
E--> 175 caa gcg aaa gtc aag ctg gag aac cga atc aaa gag ctt gaa gaa gaa
176 1459
177 Gln Ala Lys Val Lys Leu Glu Asn Arg Ile Lys Glu Leu Glu Glu Glu
178 440 445 450
E--> 180 ctg aag aga gtc aag tca gag gca gta act gcc cgc cgt gag ccc aga
181 1507
182 Leu Lys Arg Val Lys Ser Glu Ala Val Thr Ala Arg Arg Glu Pro Arg
183 455 460 465

*Danne
Green*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617

DATE: 06/12/2001
TIME: 12:25:27

Input Set : A:\766.52 Seq. Listing.txt
Output Set: N:\CRF3\06122001\I856617.raw

E--> 185 gaa gag gtg gag gat gta agc agc tat ctc tgt aca gaa ttg gac aaa
186 1555
187 Glu Glu Val Glu Asp Val Ser Ser Tyr Leu Cys Thr Glu Leu Asp Lys
188 470 475 480
E--> 190 atc ccc atg gcc cag cgc cga cgc ttc aca cgg gtg gag atg gcc cga
191 1603
192 Ile Pro Met Ala Gln Arg Arg Arg Phe Thr Arg Val Glu Met Ala Arg
193 485 490 495
E--> 195 gtg ctc atg gaa cgc aac cag tac aag gaa cgc ctc atg gag ctg cag
196 1651
197 Val Leu Met Glu Arg Asn Gln Tyr Lys Glu Arg Leu Met Glu Leu Gln
198 500 505 510 515
E--> 200 gag gct gtg agg tgg act gaa atg atc aga gca tca agg gaa cac cca
201 1699
202 Glu Ala Val Arg Trp Thr Glu Met Ile Arg Ala Ser Arg Glu His Pro
203 520 525 530
E--> 205 tct gtc cag gag aag aag tcc acc atc tgg cag ttc ttt agt cgc
206 1747
207 Ser Val Gln Glu Lys Lys Ser Thr Ile Trp Gln Phe Phe Ser Arg
208 535 540 545
E--> 210 ctc ttc agc tcc tca tct agc ccc cct ccg gcc aaa cga tcc tac cca
211 1795
212 Leu Phe Ser Ser Ser Ser Pro Pro Pro Ala Lys Arg Ser Tyr Pro
213 550 555 560
E--> 215 tct gtg aac att cac tac aag tca ccc act gca gct ggc ttt agc cag
216 1843
217 Ser Val Asn Ile His Tyr Lys Ser Pro Thr Ala Ala Gly Phe Ser Gln
218 565 570 575
E--> 220 cgt cgc agc cat gct ttg tgc cag atc tca gcc ggc agc agg ccc ctg
221 1891
222 Arg Arg Ser His Ala Leu Cys Gln Ile Ser Ala Gly Ser Arg Pro Leu
223 580 585 590 595
E--> 225 gag ttc ttc cct gat gat gac tgc acc tct tct gcc cgg cgg gag cag
226 1939
227 Glu Phe Phe Pro Asp Asp Asp Cys Thr Ser Ser Ala Arg Arg Glu Gln
228 600 605 610
E--> 230 aag cgg gag cag tac cgc cag gtt cgt gaa cac gtg cgc aat gat gac
231 1987
232 Lys Arg Glu Gln Tyr Arg Gln Val Arg Glu His Val Arg Asn Asp Asp
233 615 620 625
E--> 235 ggg agg ctg cag gcc tgt ggg tgg agc ctg cct gcc aag tac aag cag
236 2035
237 Gly Arg Leu Gln Ala Cys Gly Trp Ser Leu Pro Ala Lys Tyr Lys Gln
238 630 635 640
E--> 240 ctg agc ccc aat gga ggc cag gaa gac acc cgg atg aaa aat gtg cct
241 2083
242 Leu Ser Pro Asn Gly Gly Gln Glu Asp Thr Arg Met Lys Asn Val Pro
243 645 650 655
E--> 245 gtc cct gtg tac tgt cgc cct ctg gtg gag aag gac cct tcg aca aag

FST Please review the

Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.

SEQUENCE LISTING

<110> KYOWA HAKKO KOGYO CO., LTD.,

<120> NOVEL POLYPEPTIDE

<130> 766.52

<140> US 09/856,617

<141> 2001-05-24

<150> H10-332484

<151> 1998-11-24

<150> H11-248442

<151> 1999-09-02

<160> 18

<170> PatentIn Ver. 2.0

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<211> 4173

<212> DNA

<213> Mouse

<220>

<221> CDS

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Met Met Glu

1

atc cag atg gac gag gga gga ggt gtg gtg tac caa gac gac tac 163

Ile Gln Met Asp Glu Gly Gly Val Val Val Tyr Gln Asp Asp Tyr

5

10

15

tgc tcg ggc tgc atg tcg gag cgt gtg tcg ggc ctg gcg ggc tcc 211

Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu Ala Gly Ser

20

25

30

35

atc tac cgc gag ttc gag cgc ctc att cac tgc tat gac gag gag gtg 259



UNITED STATES PATENT AND TRADEMARK OFFICE

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 United States Patent and Trademark Office
 Washington, D.C. 20231
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/856,617	Michio Ichimura	766.52

INTERNATIONAL APPLICATION NO.

PCT/JP99/06487

IA. FILING DATE	PRIORITY DATE
11/19/1999	11/24/1998

05514
 FITZPATRICK CELLA HARPER & SCINTO
 30 ROCKEFELLER PLAZA
 NEW YORK, NY 10112

CONFIRMATION NO. 3220
 371 FORMALITIES LETTER



OC000000009349516

Date Mailed: 01/09/2003

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fee
- Priority Document
- Assignee Statement
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Oath or Declaration
- Preliminary Amendments
- Request for Immediate Examination

00766600052
 LSP
 2/9/03
 1/14/03m/dw
 PO

Applicant's response filed 08/05/2002 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 09/07/2001 have not been completed.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Additionally the following defects have been observed:

- Additional claim fees of \$90 as a non-small entity, including any required multiple dependent claim fee, are

required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$90** for a Large Entity:

- Total additional claim fee(s) for this application is **\$90**
 - **\$90** for 33 total claims over 20.

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - See attached Raw Sequence Listing Error Report.
 - **APPLICANT MUST PROVIDE:**
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

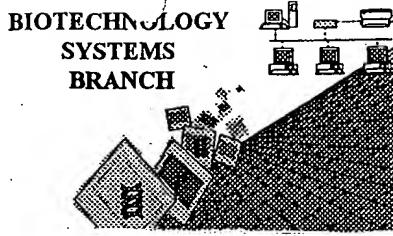
*A copy of this notice **MUST** be returned with the response.*

BARBARA A CAMPBELL

Telephone: (703) 305-3631

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/856,617	PCT/JP99/06487	766.52



BC

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/856,617A
Source: PCT09
Date Processed by STIC: 12/14/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



PCT09

**Does Not Comply
Corrected Diskette Needed**

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617A

DATE: 12/04/2002
TIME: 13:50:11

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\12032002\I856617A.raw

3 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.,
5 <120> TITLE OF INVENTION: NOVEL POLYPEPTIDE
7 <130> FILE REFERENCE: 766.52
9 <140> CURRENT APPLICATION NUMBER: US 09/856,617A
10 <141> CURRENT FILING DATE: 2001-05-24
12 <150> PRIOR APPLICATION NUMBER: H10-332484
13 <151> PRIOR FILING DATE: 1998-11-24
15 <150> PRIOR APPLICATION NUMBER: H11-248442
16 <151> PRIOR FILING DATE: 1999-09-02
18 <160> NUMBER OF SEQ ID NOS: 18
19 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

372 <210> SEQ ID NO: 2
373 <211> LENGTH: 4200
374 <212> TYPE: DNA
375 <213> ORGANISM: Mouse
377 <220> FEATURE:
378 <221> NAME/KEY: CDS
379 <222> LOCATION: (107)..(4045)
381 <400> SEQUENCE: 2
382 ggccctggcg gcggcacatc ctaaggtagc ggctgcctga ggtgacagct gcccgtggat 60
384 tcggggcccccg gaacgagccg cgctggcgcc ggcggcggtt gcccgcg atg atg gag 115
385 Met Met Glu
386 1
388 atc cag atg gac gag gga gga ggt gtg gtg tac caa gac gac tac 163
389 Ile Gln Met Asp Glu Gly Gly Val Val Val Tyr Gln Asp Asp Tyr
390 5 10 15
392 tgc tcg ggc tcg gtc atg tcg gag cgt gtg tcg ggc ctg gcg ggc tcc 211
393 Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu Ala Gly Ser
394 20 25 30 35
396 atc tac cgc gag ttc gag cgc ctc att cac tgc tat gac gag gag gtg 259
397 Ile Tyr Arg Glu Phe Glu Arg Leu Ile His Cys Tyr Asp Glu Glu Val
398 40 45 50
400 gtc aag gag ctc atg ccg ctg gtg aac gtg ctg gag aac ctt gac 307
401 Val Lys Glu Leu Met Pro Leu Val Val Asn Val Leu Glu Asn Leu Asp
402 55 60 65
404 tcg gtg ctg agc gag aac cag gag cac gag gtg gag ctg gag ctc cta 355
405 Ser Val Leu Ser Glu Asn Gln Glu His Glu Val Glu Leu Glu Leu Leu
406 70 75 80
408 cgc gag gac aac gag cag ctg ctc acg caa tac gag cgc gag aag gcg 403

RAW SEQUENCE LISTING
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DATE: 12/04/2002
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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\12032002\I856617A.raw

670	1125	1130	1135	
672	ggc aat ggg gtt gtc atc tcc atc ccc ttg act gag act gtg gtc ctg			3571
673	Gly Asn Gly Val Val Ile Ser Ile Pro Leu Thr Glu Thr Val Val Leu			
674	1140	1145	1150	1155
676	cat cga ggc cag ctc cta ggg ctc cga gcc aac aag aca tcc cca aca			3619
677	His Arg Gly Gln Leu Leu Gly Leu Arg Ala Asn Lys Thr Ser Pro Thr			
678	1160	1165	1170	
680	tct ggg gag ggg acc cgc cca ggg ggc atc atc cat gtg tat ggg gac			3667
681	Ser Gly Glu Gly Thr Arg Pro Gly Gly Ile Ile His Val Tyr Gly Asp			
682	1175	1180	1185	
684	gac agc agt gac aag gcc gcc agt agt ttc atc ccc tac tgc tcc atg			3715
685	Asp Ser Ser Asp Lys Ala Ala Ser Ser Phe Ile Pro Tyr Cys Ser Met			
686	1190	1195	1200	
688	gca cag gct cag ctt tgc ttc cat ggg cac cgt gat gct gtc aaa ttc			3763
689	Ala Gln Ala Gln Leu Cys Phe His Gly His Arg Asp Ala Val Lys Phe			
690	1205	1210	1215	
692	ttt gtc tct gtg cca gga aat gtg ctg gcc act ctc aat ggc agt gtg			3811
693	Phe Val Ser Val Pro Gly Asn Val Leu Ala Thr Leu Asn Gly Ser Val			
694	1220	1225	1230	1235
696	cta gac agc cca tca gag ggc cct ggg cct gct gca ccc gct gca gat			3859
697	Leu Asp Ser Pro Ser Glu Gly Pro Gly Pro Ala Ala Pro Ala Ala Asp			
698	1240	1245	1250	
700	gct gag ggc cag aag ttg aag aat gca ctg gtg ctg agt ggt ggt gaa			3907
701	Ala Glu Gly Gln Lys Leu Lys Asn Ala Leu Val Leu Ser Gly Gly Glu			
702	1255	1260	1265	
704	ggt tac att gac ttc cgt atc gga gac gga gag gat gat gaa act gag			3955
705	Gly Tyr Ile Asp Phe Arg Ile Gly Asp Gly Glu Asp Asp Glu Thr Glu			
706	1270	1275	1280	
708	gaa tgt gcc ggg gac gtg aac cag aca aag ccc tcg ttg tcc aag gct			4003
709	Glu Cys Ala Gly Asp Val Asn Gln Thr Lys Pro Ser Leu Ser Lys Ala			
710	1285	1290	1295	
E-->	712 gag cgc agc cac atc atc gtg tgg cag gtg tcc tac acc cct gag			
	713 Glu Arg Ser His Ile Ile Val Trp Gln Val Ser Tyr Thr Pro Glu			
	714 1300	1305	1310	
E-->	716 tgagaccctg tcctaacctga tgccaaactgt acataggacc ctacctgcct gcctccccgc			4102
E-->	718 ctgttccctg gggcagccag gttcgatccat cccctttaa cctctcaact tgcagtttt			4162
	720 gcctgaggta cagccccctag ctgttagaga gg			4200
2035	<210> SEQ ID NO: 8			
2036	<211> LENGTH: 1469			
2037	<212> TYPE: DNA			
2038	<213> ORGANISM: Mouse			
2040	<220> FEATURE:			
2041	<221> NAME/KEY: CDS			
2042	<222> LOCATION: (7)..(1458)			
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2045	aagaag atg gct gcg ggt ggt aac agg gac ggt gag aag cgc ggc tcg aga	51		
2046	Met Ala Ala Gly Gly Asn Arg Asp Gly Glu Lys Arg Gly Ser Arg			
2047	1	5	10	15
2049	agc cag gcg gac tct ggc ttc ctg ggg ctg cgg ccg acc tcg gtg gat			99

4043 - counted 4048

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TIME: 13:50:11

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Seq. 8

2115	275	280	285	
2117	gcc acc cag gag tcc gtg ttt cgg gag atg tgt gag ggc ctg ctg gag	915		
2118	Ala Thr Gln Glu Ser Val Phe Arg Glu Met Cys Glu Gly Leu Leu Glu			
2119	290	295	300	
2121	gag tct gat ggt gag gat gag cat gag gca ggc cgt gcc ggg cag cca	963		
2122	Glu Ser Asp Gly Glu Asp Glu His Glu Ala Gly Arg Ala Gly Gln Pro			
2123	305	310	315	
2125	gag gct ggt gat ggg acc acc gag atc tca ccc act ggt gct gct ggt	1011		
2126	Glu Ala Gly Asp Gly Thr Thr Glu Ile Ser Pro Thr Gly Ala Ala Gly			
2127	320	325	330	335
2129	cct gag aag agg atg gag aag aag acg gag cag cag cgg cgg cgg gag	1059		
2130	Pro Glu Lys Arg Met Glu Lys Lys Thr Glu Gln Gln Arg Arg Arg Glu			
2131	340	345	350	
2133	aaa gct gct cgc aag ctg cgg gtc cag cag gct gca ctg agg gca gcc	1107		
2134	Lys Ala Ala Arg Lys Leu Arg Val Gln Gln Ala Ala Leu Arg Ala Ala			
2135	355	360	365	
2137	cgg ctt cag cac caa gaa ctt ttc agg ctg cgt ggg atc aag gcc cag	1155		
2138	Arg Leu Gln His Gln Glu Leu Phe Arg Leu Arg Gly Ile Lys Ala Gln			
2139	370	375	380	
2141	gtg gcc cga agg ctg gca gaa ctg gca cgc cgg agg gag cag cgg cgc	1203		
2142	Val Ala Arg Arg Leu Ala Glu Leu Ala Arg Arg Arg Glu Gln Arg Arg			
2143	385	390	395	
2145	ata cgg cga ctg gca gag gct gac aag ccc cga agg ctg gga cgg ctc	1251		
2146	Ile Arg Arg Leu Ala Glu Ala Asp Lys Pro Arg Arg Leu Gly Arg Leu			
2147	400	405	410	415
2149	aag tac cag gct cct gac att gat gtg cag ctc agc tct gag ttg tct	1299		
2150	Lys Tyr Gln Ala Pro Asp Ile Asp Val Gln Leu Ser Ser Glu Leu Ser			
2151	420	425	430	
2153	ggc tca ctc agg aca ctg aag cca gaa ggt cac att ctc cga gac agg	1347		
2154	Gly Ser Leu Arg Thr Leu Lys Pro Glu Gly His Ile Leu Arg Asp Arg			
2155	435	440	445	
2157	tcc aag agc ttc cag aag aga aat atg att gag ccc cga gaa cga gcc	1395		
2158	Phe Lys Ser Phe Gln Lys Arg Asn Met Ile Glu Pro Arg Glu Arg Ala			
2159	450	455	460	
2161	aag ttc aag cgc aaa tac aaa gtg aag ctg gtg gag aag cgg gcc tac	1443		
2162	Lys Phe Lys Arg Lys Tyr Lys Val Lys Leu Val Glu Lys Arg Ala Tyr			
2163	465	470	475	
E-->	2165 cgt gag att cag ttg tag ctgtgcagat g			
	2166 Arg Glu Ile Gln Leu			
E-->	2167 480			
2170	<210> SEQ ID NO: 9			
2171	<211> LENGTH: 1305			
2172	<212> TYPE: PRT			
2173	<213> ORGANISM: Mouse			
2175	<400> SEQUENCE: 9			
2176	Met Met Glu Ile Gln Met Asp Glu Gly Gly Val Val Val Tyr Gln			
2177	1	5	10	15
2179	Asp Asp Tyr Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu			
2180	20	25	30	

(1469) - Counted 1472

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Input Set : A:\SEQUENCE LISTING.txt
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Sq. 9

2329 Leu Val Gly Cys Ala Thr Arg Cys Asn Val Pro Arg Ser Asn Cys Ser
2330 820 825 830
2332 Ser Arg Gly Asp Thr Pro Val Leu Asp Lys Gly Gln Gly Asp Val Ala
2333 835 840 845
2335 Thr Thr Ala Asn Gly Lys Val Asn Pro Ser Gln Ser Thr Glu Glu Ala
2336 850 855 860
2338 Thr Glu Ala Thr Glu Val Pro Asp Pro Gly Pro Ser Glu Ser Glu Ala
2339 865 870 875 880
2341 Thr Thr Val Arg Pro Gly Pro Leu Thr Glu His Val Phe Thr Asp Pro
2342 885 890 895
2344 Ala Pro Thr Pro Ser Ser Ser Thr Gln Pro Ala Ser Glu Asn Gly Ser
2345 900 905 910
2347 Glu Ser Asn Gly Thr Ile Val Gln Pro Gln Val Glu Pro Ser Gly Glu
2348 915 920 925
2350 Leu Ser Thr Thr Ser Ser Ala Ala Pro Thr Met Trp Leu Gly Ala
2351 930 935 940
2353 Gln Asn Gly Trp Leu Tyr Val His Ser Ala Val Ala Asn Trp Lys Lys
2354 945 950 955 960
2356 Cys Leu His Ser Ile Lys Leu Lys Asp Ser Val Leu Ser Leu Val His
2357 965 970 975
2359 Val Lys Gly Arg Val Leu Val Ala Leu Ala Asp Gly Thr Leu Ala Ile
2360 980 985 990
2362 Phe His Arg Gly Glu Asp Gly Gln Trp Asp Leu Ser Asn Tyr His Leu
2363 995 1000 1005
2365 Met Asp Leu Gly His Pro His His Ser Ile Arg Cys Met Ala Val Val
2366 1010 1015 1020
2368 Asn Asp Arg Val Trp Cys Gly Tyr Lys Asn Lys Val His Val Ile Gln
E--> 2369 | 025 1030 1035 1040
2371 Pro Lys Thr Met Gln Ile Glu Lys Ser Phe Asp Ala His Pro Arg Arg
2372 1045 1050 1055
2374 Glu Ser Gln Val Arg Gln Leu Ala Trp Ile Gly Asp Gly Val Trp Val
2375 1060 1065 1070
2377 Ser Ile Arg Leu Asp Ser Thr Leu Arg Leu Tyr His Ala His Thr His
2378 1075 1080 1085
2380 Gln His Leu Gln Asp Val Asp Ile Glu Pro Tyr Val Ser Lys Met Leu
2381 1090 1095 1100
2383 Gly Thr Gly Lys Leu Gly Phe Ser Phe Val Arg Ile Thr Ala Leu Leu
E--> 2384 | 105 1110 1115 1120
2386 Ile Ala Gly Asn Arg Leu Trp Val Gly Thr Gly Asn Gly Val Val Ile
2387 1125 1130 1135
2389 Ser Ile Pro Leu Thr Glu Thr Val Val Leu His Arg Gly Gln Leu Leu
2390 1140 1145 1150
2392 Gly Leu Arg Ala Asn Lys Thr Ser Pro Thr Ser Gly Glu Gly Thr Arg
2393 1155 1160 1165
2395 Pro Gly Gly Ile Ile His Val Tyr Gly Asp Asp Ser Ser Asp Lys Ala
2396 1170 1175 1180
2398 Ala Ser Ser Phe Ile Pro Tyr Cys Ser Met Ala Gln Ala Gln Leu Cys
E--> 2399 | 185 1190 1195 1200
2401 Phe His Gly His Arg Asp Ala Val Lys Phe Phe Val Ser Val Pro Gly

bold, with the first letter of each word underlined

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Input Set : A:\SEQUENCE LISTING.txt

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2402 1205 1210 1215
 2404 Asn Val Leu Ala Thr Leu Asn Gly Ser Val Leu Asp Ser Pro Ser Glu
 2405 1220 1225 1230
 2407 Gly Pro Gly Pro Ala Ala Pro Ala Ala Asp Ala Glu Gly Gln Lys Leu
 2408 1235 1240 1245
 2410 Lys Asn Ala Leu Val Leu Ser Gly Gly Glu Tyr Ile Asp Phe Arg
 2411 1250 1255 1260
 2413 Ile Gly Asp Gly Glu Asp Asp Glu Thr Glu Glu Cys Ala Gly Asp Val
E--> 2414 /265 1270 1275 1280
 2416 Asn Gln Thr Lys Pro Ser Leu Ser Lys Ala Glu Arg Ser His Ile Ile
 2417 1285 1290 1295
 2419 Val Trp Gln Val Ser Tyr Thr Pro Glu
 2420 1300 1305
 2423 <210> SEQ ID NO: 10
 2424 <211> LENGTH: 1314
 2425 <212> TYPE: PRT
 2426 <213> ORGANISM: Mouse
 2428 <400> SEQUENCE: 10
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 2432 Asp Asp Tyr Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu
 2433 20 25 30
 2435 Ala Gly Ser Ile Tyr Arg Glu Phe Glu Arg Leu Ile His Cys Tyr Asp
 2436 35 40 45
 2438 Glu Glu Val Val Lys Glu Leu Met Pro Leu Val Val Asn Val Leu Glu
 2439 50 55 60
 2441 Asn Leu Asp Ser Val Leu Ser Glu Asn Gln Glu His Glu Val Glu Leu
 2442 65 70 75 80
 2444 Glu Leu Leu Arg Glu Asp Asn Glu Gln Leu Leu Thr Gln Tyr Glu Arg
 2445 85 90 95
 2447 Glu Lys Ala Leu Arg Lys Gln Ala Glu Glu Lys Phe Ile Glu Phe Glu
 2448 100 105 110
 2450 Asp Ala Leu Glu Gln Glu Lys Glu Leu Gln Ile Gln Val Glu His
 2451 115 120 125
 2453 Tyr Glu Phe Gln Thr Arg Gln Leu Glu Leu Lys Ala Lys Asn Tyr Ala
 2454 130 135 140
 2456 Asp Gln Ile Ser Arg Leu Glu Glu Arg Glu Ser Glu Met Lys Lys Glu
 2457 145 150 155 160
 2459 Tyr Asn Ala Leu His Gln Arg His Thr Glu Met Ile Gln Thr Tyr Val
 2460 165 170 175
 2462 Glu His Ile Glu Arg Ser Lys Met Gln Gln Val Gly Gly Ser Gly Gln
 2463 180 185 190
 2465 Thr Glu Ser Ser Leu Pro Gly Arg Ser Pro Arg Gln Ser Trp Arg Lys
 2466 195 200 205
 2468 Ser Arg Lys Glu Arg Pro Thr Ser Leu Asn Val Phe Pro Leu Ala Asp
 2469 210 215 220
 2471 Gly Met Cys Pro Asn Asp Glu Met Ser Glu Ser Gly Gln Ser Ser Ala
 2472 225 230 235 240
 2474 Ala Ala Thr Pro Ser Thr Thr Gly Thr Lys Ser Asn Thr Pro Thr Ser

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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\12032002\I856617A.raw

Seq.10

E--> 2622 |025 1030 1035 1040
 2624 Tyr Lys Asn Lys Val His Val Ile Gln Pro Lys Thr Met Gln Ile Glu
 2625 1045 1050 1055
 2627 Lys Ser Phe Asp Ala His Pro Arg Arg Glu Ser Gln Val Arg Gln Leu
 2628 1060 1065 1070
 2630 Ala Trp Ile Gly Asp Gly Val Trp Val Ser Ile Arg Leu Asp Ser Thr
 2631 1075 1080 1085
 2633 Leu Arg Leu Tyr His Ala His Thr His Gln His Leu Gln Asp Val Asp
 2634 1090 1095 1100
 2636 Ile Glu Pro Tyr Val Ser Lys Met Leu Gly Thr Gly Lys Leu Gly Phe
 E--> 2637 |105 1110 1115 1120
 2639 Ser Phe Val Arg Ile Thr Ala Leu Leu Ile Ala Gly Asn Arg Leu Trp
 2640 1125 1130 1135
 2642 Val Gly Thr Gly Asn Gly Val Val Ile Ser Ile Pro Leu Thr Glu Thr
 2643 1140 1145 1150
 2645 Val Val Leu His Arg Gly Gln Leu Leu Gly Leu Arg Ala Asn Lys Thr
 2646 1155 1160 1165
 2648 Ser Pro Thr Ser Gly Glu Gly Thr Arg Pro Gly Gly Ile Ile His Val
 2649 1170 1175 1180
 2651 Tyr Gly Asp Asp Ser Ser Asp Lys Ala Ala Ser Ser Phe Ile Pro Tyr
 E--> 2652 |185 1190 1195 1200
 2654 Cys Ser Met Ala Gln Ala Gln Leu Cys Phe His Gly His Arg Asp Ala
 2655 1205 1210 1215
 2657 Val Lys Phe Phe Val Ser Val Pro Gly Asn Val Leu Ala Thr Leu Asn
 2658 1220 1225 1230
 2660 Gly Ser Val Leu Asp Ser Pro Ser Glu Gly Pro Gly Pro Ala Ala Pro
 2661 1235 1240 1245
 2663 Ala Ala Asp Ala Glu Gly Gln Lys Leu Lys Asn Ala Leu Val Leu Ser
 2664 1250 1255 1260
 2666 Gly Gly Glu Gly Tyr Ile Asp Phe Arg Ile Gly Asp Gly Glu Asp Asp
 E--> 2667 |265 1270 1275 1280
 2669 Glu Thr Glu Glu Cys Ala Gly Asp Val Asn Gln Thr Lys Pro Ser Leu
 2670 1285 1290 1295
 2672 Ser Lys Ala Glu Arg Ser His Ile Ile Val Trp Gln Val Ser Tyr Thr
 2673 1300 1305 1310
 2675 Pro Glu
 2679 <210> SEQ ID NO: 11
 2680 <211> LENGTH: 1337
 2681 <212> TYPE: PRT
 2682 <213> ORGANISM: Mouse
 2684 <400> SEQUENCE: 11
 2685 Met Met Glu Ile Gln Met Asp Glu Gly Gly Val Val Val Tyr Gln
 2686 1 5 10 15
 2688 Asp Asp Tyr Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu
 2689 20 25 30
 2691 Ala Gly Ser Ile Tyr Arg Glu Phe Glu Arg Leu Ile His Cys Tyr Asp
 2692 35 40 45
 2694 Glu Glu Val Val Lys Glu Leu Met Pro Leu Val Val Asn Val Leu Glu
 2695 50 55 60

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Seq. 11

2844 Leu Val Gly Cys Ala Thr Arg Cys Asn Val Pro Arg Ser Asn Cys Ser
 2845 850 855 860
 2847 Ser Arg Gly Asp Thr Pro Val Leu Asp Lys Gly Gln Gly Asp Val Ala
 2848 865 870 875 880
 2850 Thr Thr Ala Asn Gly Lys Val Asn Pro Ser Gln Ser Thr Glu Glu Ala
 2851 885 890 895
 2853 Thr Glu Ala Thr Glu Val Pro Asp Pro Gly Pro Ser Glu Ser Glu Ala
 2854 900 905 910
 2856 Thr Thr Val Arg Pro Gly Pro Leu Thr Glu His Val Phe Thr Asp Pro
 2857 915 920 925
 2859 Ala Pro Thr Pro Ser Ser Ser Thr Gln Pro Ala Ser Glu Asn Gly Ser
 2860 930 935 940
 2862 Glu Ser Asn Gly Thr Ile Val Gln Pro Gln Val Glu Pro Ser Gly Glu
 2863 945 950 955 960
 2865 Leu Ser Thr Thr Ser Ser Ala Ala Pro Thr Met Trp Leu Gly Ala
 2866 965 970 975
 2868 Gln Asn Gly Trp Leu Tyr Val His Ser Ala Val Ala Asn Trp Lys Lys
 2869 980 985 990
 2871 Cys Leu His Ser Ile Lys Leu Lys Asp Ser Val Leu Ser Leu Val His
 2872 995 1000 1005
 2874 Val Lys Gly Arg Val Leu Val Ala Leu Ala Asp Gly Thr Leu Ala Ile
 2875 1010 1015 1020
 2877 Phe His Arg Gly Glu Asp Gly Gln Trp Asp Leu Ser Asn Tyr His Leu
E--> 2878 {025 1030 1035 1040
 2880 Met Asp Leu Gly His Pro His His Ser Ile Arg Cys Met Ala Val Val
 2881 1045 1050 1055
 2883 Asn Asp Arg Val Trp Cys Gly Tyr Lys Asn Lys Val His Val Ile Gln
 2884 1060 1065 1070
 2886 Pro Lys Thr Met Gln Ile Glu Lys Ser Phe Asp Ala His Pro Arg Arg
 2887 1075 1080 1085
 2889 Glu Ser Gln Val Arg Gln Leu Ala Trp Ile Gly Asp Gly Val Trp Val
 2890 1090 1095 1100
E--> 2893 {105 1110 1115 1120
 2895 Gln His Leu Gln Asp Val Asp Ile Glu Pro Tyr Val Ser Lys Met Leu
 2896 1125 1130 1135
 2898 Gly Thr Gly Lys Leu Gly Phe Ser Phe Val Arg Ile Thr Ala Leu Leu
 2899 1140 1145 1150
 2901 Ile Ala Gly Asn Arg Leu Trp Val Gly Thr Gly Asn Gly Val Val Ile
 2902 1155 1160 1165
 2904 Ser Ile Pro Leu Thr Glu Thr Val Val Leu His Arg Gly Gln Leu Leu
 2905 1170 1175 1180
 2907 Gly Leu Arg Ala Asn Lys Thr Ser Pro Thr Ser Gly Glu Gly Thr Arg
E--> 2908 {185 1190 1195 1200
 2910 Pro Gly Gly Ile Ile His Val Tyr Gly Asp Asp Ser Ser Asp Lys Ala
 2911 1205 1210 1215
 2913 Ala Ser Ser Phe Ile Pro Tyr Cys Ser Met Ala Gln Ala Gln Leu Cys
 2914 1220 1225 1230
 2916 Phe His Gly His Arg Asp Ala Val Lys Phe Phe Val Ser Val Pro Gly

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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\12032002\I856617A.raw

2917 1235 1240 1245
 2919 Asn Val Leu Ala Thr Leu Asn Gly Ser Val Leu Asp Ser Pro Ser Glu
 2920 1250 1255 1260
 2922 Gly Pro Gly Pro Ala Ala Pro Ala Ala Asp Ala Glu Gly Gln Lys Leu
 E--> 2923 1265 1270 1275 1280
 2925 Lys Asn Ala Leu Val Leu Ser Gly Gly Glu Gly Tyr Ile Asp Phe Arg
 2926 1285 1290 1295
 2928 Ile Gly Asp Gly Glu Asp Asp Glu Thr Glu Glu Cys Ala Gly Asp Val
 2929 1300 1305 1310
 2931 Asn Gln Thr Lys Pro Ser Leu Ser Lys Ala Glu Arg Ser His Ile Ile
 2932 1315 1320 1325
 2934 Val Trp Gln Val Ser Tyr Thr Pro Glu
 2935 1330 1335
 2938 <210> SEQ ID NO: 12
 2939 <211> LENGTH: 1336
 2940 <212> TYPE: PRT
 2941 <213> ORGANISM: Mouse
 2943 <400> SEQUENCE: 12
 2944 Met Met Glu Ile Gln Met Asp Glu Gly Gly Val Val Val Tyr Gln
 2945 1 5 10 15
 2947 Asp Asp Tyr Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu
 2948 20 25 30
 2950 Ala Gly Ser Ile Tyr Arg Glu Phe Glu Arg Leu Ile His Cys Tyr Asp
 2951 35 40 45
 2953 Glu Glu Val Val Lys Glu Leu Met Pro Leu Val Val Asn Val Leu Glu
 2954 50 55 60
 2956 Asn Leu Asp Ser Val Leu Ser Glu Asn Gln Glu His Glu Val Glu Leu
 2957 65 70 75 80
 2959 Glu Leu Leu Arg Glu Asp Asn Glu Gln Leu Leu Thr Gln Tyr Glu Arg
 2960 85 90 95
 2962 Glu Lys Ala Leu Arg Lys Gln Ala Glu Glu Lys Phe Ile Glu Phe Glu
 2963 100 105 110
 2965 Asp Ala Leu Glu Gln Glu Lys Glu Leu Gln Ile Gln Val Glu His
 2966 115 120 125
 2968 Tyr Glu Phe Gln Thr Arg Gln Leu Glu Leu Lys Ala Lys Asn Tyr Ala
 2969 130 135 140
 2971 Asp Gln Ile Ser Arg Leu Glu Glu Arg Glu Ser Glu Met Lys Lys Glu
 2972 145 150 155 160
 2974 Tyr Asn Ala Leu His Gln Arg His Thr Glu Met Ile Gln Thr Tyr Val
 2975 165 170 175
 2977 Glu His Ile Glu Arg Ser Lys Met Gln Gln Val Gly Gly Ser Gly Gln
 2978 180 185 190
 2980 Thr Glu Ser Ser Leu Pro Gly Arg Arg Lys Glu Arg Pro Thr Ser Leu
 2981 195 200 205
 2983 Asn Val Phe Pro Leu Ala Asp Gly Met Val Arg Ala Gln Met Gly Gly
 2984 210 215 220
 2986 Lys Leu Val Pro Ala Gly Asp His Trp His Leu Ser Asp Leu Gly Gln
 2987 225 230 235 240
 2989 Leu Gln Ser Ser Ser Tyr Gln Cys Pro Asn Asp Glu Met Ser Glu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617A

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Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\12032002\I856617A.raw

Seq. 12

E--> 3137 | 025 1030 1035 1040
 3139 Asp Leu Gly His Pro His His Ser Ile Arg Cys Met Ala Val Val Asn
 3140 1045 1050 1055
 3142 Asp Arg Val Trp Cys Gly Tyr Lys Asn Lys Val His Val Ile Gln Pro
 3143 1060 1065 1070
 3145 Lys Thr Met Gln Ile Glu Lys Ser Phe Asp Ala His Pro Arg Arg Glu
 3146 1075 1080 1085
 3148 Ser Gln Val Arg Gln Leu Ala Trp Ile Gly Asp Gly Val Trp Val Ser
 3149 1090 1095 1100
 3151 Ile Arg Leu Asp Ser Thr Leu Arg Leu Tyr His Ala His Thr His Gln
E--> 3152 | 105 1110 1115 1120
 3154 His Leu Gln Asp Val Asp Ile Glu Pro Tyr Val Ser Lys Met Leu Gly
 3155 1125 1130 1135
 3157 Thr Gly Lys Leu Gly Phe Ser Phe Val Arg Ile Thr Ala Leu Leu Ile
 3158 1140 1145 1150
 3160 Ala Gly Asn Arg Leu Trp Val Gly Thr Gly Asn Gly Val Val Ile Ser
 3161 1155 1160 1165
 3163 Ile Pro Leu Thr Glu Thr Val Val Leu His Arg Gly Gln Leu Leu Gly
 3164 1170 1175 1180
 3166 Leu Arg Ala Asn Lys Thr Ser Pro Thr Ser Gly Glu Gly Thr Arg Pro
E--> 3167 | 185 1190 1195 1200
 3169 Gly Gly Ile Ile His Val Tyr Gly Asp Asp Ser Ser Asp Lys Ala Ala
 3170 1205 1210 1215
 3172 Ser Ser Phe Ile Pro Tyr Cys Ser Met Ala Gln Ala Gln Leu Cys Phe
 3173 1220 1225 1230
 3175 His Gly His Arg Asp Ala Val Lys Phe Phe Val Ser Val Pro Gly Asn
 3176 1235 1240 1245
 3178 Val Leu Ala Thr Leu Asn Gly Ser Val Leu Asp Ser Pro Ser Glu Gly
 3179 1250 1255 1260
 3181 Pro Gly Pro Ala Ala Pro Ala Ala Asp Ala Glu Gly Gln Lys Leu Lys
E--> 3182 | 265 1270 1275 1280
 3184 Asn Ala Leu Val Leu Ser Gly Gly Glu Gly Tyr Ile Asp Phe Arg Ile
 3185 1285 1290 1295
 3187 Gly Asp Gly Glu Asp Asp Glu Thr Glu Glu Cys Ala Gly Asp Val Asn
 3188 1300 1305 1310
 3190 Gln Thr Lys Pro Ser Leu Ser Lys Ala Glu Arg Ser His Ile Ile Val
 3191 1315 1320 1325
 3193 Trp Gln Val Ser Tyr Thr Pro Glu
 3194 1330 1335
 3285 <210> SEQ ID NO: 14
 3286 <211> LENGTH: 1508
 3287 <212> TYPE: PRT
 3288 <213> ORGANISM: Mouse
 3290 <400> SEQUENCE: 14
 3291 Met Met Ala Gly Glu Gly Ser Thr Ile Thr Ser Arg Ile Lys Asn Leu
 3292 1 5 10 15
 3294 Leu Arg Ser Pro Ser Ile Lys Leu Arg Arg Ser Lys Ala Gly Asn Arg
 3295 20 25 30
 3297 Arg Glu Asp Leu Ser Ser Lys Val Thr Leu Glu Lys Val Leu Gly Val

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617A

DATE: 12/04/2002
TIME: 13:50:11

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\12032002\I856617A.raw

Seq. 14

3445	820	825	830	
3447	Met Ser Arg Ala Gln Glu Thr Met	Glu Tyr Leu Asp Pro Ala Pro Val		
3448	835	840	845	
3450	Ala Asn Thr Gly Pro Lys Arg Arg	Gly Arg Trp Ala Gln Pro Gly Val		
3451	850	855	860	
3453	Glu Leu Ser Val Arg Ser Met Leu Asp	Leu Arg Gln Ile Glu Thr Leu		
3454	865	870	875	880
3456	Ala Pro Ser Pro Arg Gly Pro Ser	Gln Asp Ser Leu Ala Val Ser Pro		
3457	885	890	895	
3459	Ala Gly Pro Gly Lys His Gly Pro	Gln Ala Pro Glu Leu Ser Cys Val		
3460	900	905	910	
3462	Ser Gln Asn Glu Arg Ala Pro Arg	Leu Gln Thr Ser Gln Pro Cys Ser		
3463	915	920	925	
3465	Cys Pro Asp Ile Ile Gln Leu	Leu Ser Gln Glu Glu Gly Val Phe Ala		
3466	930	935	940	
3468	Gln Asp Leu Glu Pro Ala Pro Ile	Glu Asp Gly Ile Val Tyr Pro Glu		
3469	945	950	955	960
3471	Pro Ser Asp Ser Pro Thr Met Asp	Thr Ser Ala Phe Gln Val Gln Ala		
3472	965	970	975	
3474	Pro Thr Gly Gly Ser Leu Gly Arg	Met Tyr Pro Gly Ser Arg Gly Ser		
3475	980	985	990	
3477	Glu Lys His Ser Pro Asp Ser Ala	Cys Ser Val Asp Tyr Ser Ser Ser		
3478	995	1000	1005	
3480	Arg Leu Ser Ser Pro Glu His Pro	Asn Glu Asp Ser Glu Ser Thr Glu		
3481	1010	1015	1020	
3483	Pro Leu Ser Val Asp Gly Ile	Ser Ser Asp Leu Glu Glu Pro Ala Glu		
E--> 3484 025	1025	1030	1035	1040
3486	Gly Asp Glu Asp Glu Glu Glu	Gly Gly Thr Gly Leu Cys Gly Leu		
3487	1045	1050	1055	
3489	Gln Glu Gly Gly Pro Arg Thr Pro	Asp Gln Glu Gln Phe Leu Lys Gln		
3490	1060	1065	1070	
3492	Leu Phe Glu Thr Leu Ala Asn	Gly Thr Ala Pro Gly Gly Pro Ala Arg		
3493	1075	1080	1085	
3495	Val Leu Glu Arg Thr Glu Ser	Arg Ser Ile Ser Ser Arg Phe Leu Leu		
3496	1090	1095	1100	
3498	Gln Val Gln Thr Leu Pro Leu Arg	Glu Pro Ser Leu Ser Ser Ser Gly		
E--> 3499 105	1105	1110	1115	1120
3501	Leu Ala Leu Thr Ser Arg Pro Asp	Gln Val Ser Gln Val Ser Gly Glu		
3502	1125	1130	1135	
3504	Gln Leu Lys Gly Ser Gly Ala Thr	Pro Pro Gly Ala Pro Pro Glu Met		
3505	1140	1145	1150	
3507	Glu Pro Ser Ser Gly Asn Ser	Gly Pro Lys Gln Val Ala Pro Val Leu		
3508	1155	1160	1165	
3510	Leu Thr Arg Arg Asn Asn	Leu Asp Asn Ser Trp Ala Ser Lys Lys		
3511	1170	1175	1180	
3513	Met Ala Ala Thr Arg Pro Leu Ala	Gly Leu Gln Lys Ala Gln Ser Val		
E--> 3514 185	1185	1190	1195	1200
3516	His Ser Leu Val Pro Gln Asp	Glu Val Pro Ser Ser Arg Pro Leu Leu		
3517	1205	1210	1215	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/856,617A

DATE: 12/04/2002

TIME: 13:50:11

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF4\12032002\I856617A.raw

3519 Phe Arg Glu Ala Glu Thr Gln Gly Ser Leu Gly Ser Leu Pro Gln Ala
 3520 1220 1225 1230
 3522 Gly Gly Cys Ser Ser Gln Pro His Ser Tyr Gln Asn His Thr Thr Ser
 3523 1235 1240 1245
 3525 Ser Met Ala Lys Leu Ala Arg Ser Ile Ser Val Gly Glu Asn Pro Gly
 3526 1250 1255 1260
 3528 Leu Ala Thr Glu Pro Gln Ala Pro Ala Pro Ile Arg Ile Ser Pro Phe
E--> 3529 | 265 1270 1275 1280
 3531 Asn Lys Leu Ala Leu Pro Ser Arg Ala His Leu Val Leu Asp Ile Pro
 3532 1285 1290 1295
 3534 Lys Pro Leu Pro Asp Arg Pro Thr Leu Thr Thr Phe Ser Pro Val Ser
 3535 1300 1305 1310
 3537 Lys Gly Leu Thr His Asn Glu Thr Glu Gln Ser Gly Pro Leu Arg Glu
 3538 1315 1320 1325
 3540 Pro Arg Lys Ala His Thr Thr Val Glu Lys His Ser Cys Leu Gly Glu
 3541 1330 1335 1340
 3543 Gly Thr Thr His Lys Ser Arg Thr Glu Cys Gln Ala Tyr Pro Gly Pro
E--> 3544 | 345 1350 1355 1360
 3546 Asn His Pro Cys Arg Gln Gln Leu Pro Val Asn Asn Leu Leu Gln Ala
 3547 1365 1370 1375
 3549 Glu Ser Leu Gln Pro Leu Ser Pro Glu Lys Thr Arg Asn Pro Val Glu
 3550 1380 1385 1390
 3552 Ser Ser Arg Pro Gly Val Ala Leu Ser Gln Asp Ser Glu Leu Ala Leu
 3553 1395 1400 1405
 3555 Ser Leu Gln Gln Cys Glu Gln Leu Val Ala Glu Leu Gln Gly Asn Val
 3556 1410 1415 1420
 3558 Arg Gln Ala Val Glu Leu Tyr Arg Ala Val Thr Ser Cys Lys Thr Pro
E--> 3559 | 425 1430 1435 1440
 3561 Ser Ala Glu Gln Ser His Ile Thr Arg Leu Leu Arg Asp Thr Phe Ser
 3562 1445 1450 1455
 3564 Pro Val Arg Gln Glu Leu Glu Val Leu Ala Gly Ala Val Leu Ser Ser
 3565 1460 1465 1470
 3567 Pro Gly Gly Ser Pro Gly Ala Val Ala Ala Glu Gln Thr Gln Ala Leu
 3568 1475 1480 1485
 3570 Leu Glu Gln Tyr Ser Glu Leu Leu Leu Arg Ala Val Glu Arg Arg Met
 3571 1490 1495 1500
 3573 Glu Arg Arg Leu
E--> 3574 | 505
 3730 <210> SEQ ID NO: 17
 3731 <211> LENGTH: 27
 3732 <212> TYPE: DNA
 3733 <213> ORGANISM: Artificial Sequence
 3735 <220> FEATURE:
 3736 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
 3738 <400> SEQUENCE: 17
E--> 3739 tagatatcgc cttggAACAA gagaaga → place here
 3740 (27)
 3743 <210> SEQ ID NO: 18
 3744 <211> LENGTH: 31

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617A
DATE: 12/04/2002
TIME: 13:50:11

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\12032002\I856617A.raw

3745 <212> TYPE: DNA
3746 <213> ORGANISM: Artificial Sequence
3748 <220> FEATURE:
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3751 <400> SEQUENCE: 18
3752 atgaattctc agttgttctt tgtgacactg a 31
E--> 3753 1 / 142 ~*delete*

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/856,617A

DATE: 12/04/2002

TIME: 13:50:12

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF4\12032002\I856617A.raw

L:712 M:254 E: No. of Bases conflict, LENGTH:Input:4043 Counted:4048 SEQ:2
M:254 Repeated in SeqNo=2
L:2165 M:254 E: No. of Bases conflict, LENGTH:Input:1469 Counted:1472 SEQ:8
L:2167 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1469 Found:1472 SEQ:8
L:2369 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9
M:332 Repeated in SeqNo=9
L:2622 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10
M:332 Repeated in SeqNo=10
L:2878 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11
M:332 Repeated in SeqNo=11
L:3137 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
M:332 Repeated in SeqNo=12
L:3484 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14
M:332 Repeated in SeqNo=14
L:3739 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:27 SEQ:17
L:3753 M:254 E: No. of Bases conflict, LENGTH:Input:142 Counted:32 SEQ:18
L:3753 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:3753 M:252 E: No. of Seq. differs, <211> LENGTH:Input:31 Found:32 SEQ:18



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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/856,617	Michio Ichimura	766.52
INTERNATIONAL APPLICATION NO.		
PCT/JP99/06487		
05514 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112		766.52 (SP) <i>err. abandoned</i> 371 FORMALITIES LETTER
		IA. FILING DATE PRIORITY DATE 11/19/1999 11/24/1998
CONFIRMATION NO. 3220		
OC000000010200341		

Date Mailed: 06/06/2003

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The United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495) has made the following determination:

Applicant has failed to properly respond to the notification of MISSING REQUIREMENTS (Form PCT/DO/EO/905), mailed 09/07/2001 within the time period set therein.

Therefore, the above identified application failed to meet the requirements of 35 U.S.C. 371 and 37 CFR 1.495, and is ABANDONED AS TO THE UNITED STATES OF AMERICA.

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - See attached Raw Sequence Listing Error Report.
 - **APPLICANT MUST PROVIDE:**
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

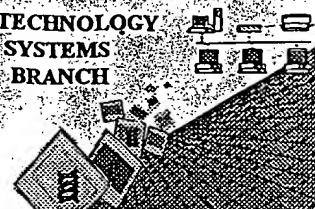
BARBARA A CAMPBELL

Telephone: (703) 305-3631

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U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/856,617	PCT/JP99/06487	766.52

FORM PCT/DO/EO/918 (371 Formalities Notice)



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/856,617B
Source: PCT/09
Date Processed by STIC: 5/19/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
 - 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
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3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617B

DATE: 05/19/2003
TIME: 15:00:41

Input Set : A:\766.52.txt
Output Set: N:\CRF4\05192003\I856617B.raw

3 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.,
5 <120> TITLE OF INVENTION: NOVEL POLYPEPTIDE
7 <130> FILE REFERENCE: 766.52
9 <140> CURRENT APPLICATION NUMBER: US 09/856,617B
10 <141> CURRENT FILING DATE: 2001-05-24
12 <150> PRIOR APPLICATION NUMBER: H10-332484
13 <151> PRIOR FILING DATE: 1998-11-24
15 <150> PRIOR APPLICATION NUMBER: H11-248442
16 <151> PRIOR FILING DATE: 1999-09-02
18 <160> NUMBER OF SEQ ID NOS: 18
19 <170> SOFTWARE: PatentIn Ver. 2.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

2035 <210> SEQ ID NO: 8
2036 <211> LENGTH: 1469
2037 <212> TYPE: DNA
2038 <213> ORGANISM: Mouse
2040 <220> FEATURE:
2041 <221> NAME/KEY: CDS
2042 <222> LOCATION: (7)..(1458)
2044 <400> SEQUENCE: 8
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2047 1 5 10 15
2049 agc cag gcg gac tct ggc ttc ctg ggg ctg cgg ccc acc tcg gtg gat 99
2050 Ser Gln Ala Asp Ser Gly Phe Leu Gly Leu Arg Pro Thr Ser Val Asp
2051 20 25 30
2053 ccc gct ctg agg cgg cgg cgg ggc ccc aga aac aag aag cgc ggc 147
2054 Pro Ala Leu Arg Arg Arg Arg Gly Pro Arg Asn Lys Lys Arg Gly
2055 35 40 45
2057 tgg agg agg ctc gcc gag gag cgg ctg ggg tta gag gtc gac cag ttc 195
2058 Trp Arg Arg Leu Ala Glu Glu Pro Leu Gly Leu Glu Val Asp Gln Phe
2059 50 55 60
2061 ctg gaa gac gtc cgg cta cag gag cgc acg acc ggt ggc ttg ttg gca 243
2062 Leu Glu Asp Val Arg Leu Gln Glu Arg Thr Thr Gly Leu Leu Ala
2063 65 70 75
2065 gag gcc cca aac gaa aag ctc ttc ttc gtg gac aca gga ttc aag aga 291
2066 Glu Ala Pro Asn Glu Lys Leu Phe Phe Val Asp Thr Gly Phe Lys Arg
2067 80 85 90 95
2069 aaa gaa cca aga aag aag agg acc ttg gtc cag aag aag tca cag cgt 339
2070 Lys Glu Pro Arg Lys Lys Arg Thr Leu Val Gln Lys Ser Gln Arg

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,617B

DATE: 05/19/2003
TIME: 15:00:41

Input Set : A:\766.52.txt
Output Set: N:\CRF4\05192003\I856617B.raw

2071	100	105	110	
2073	ctc cag aaa ccc tta cgg gtt gac ctt gcc ctt gag aat cat tct aag			387
2074	Leu Gln Lys Pro Leu Arg Val Asp Leu Ala Leu Glu Asn His Ser Lys			
2075	115	120	125	
2077	atc cct gct ccc aaa gac atc ctc gca cat cag gtc cct aat gcc aag			435
2078	Ile Pro Ala Pro Lys Asp Ile Leu Ala His Gln Val Pro Asn Ala Lys			
2079	130	135	140	
2081	aag ctc agg cga aag gag gag tta tgg gag aaa ctg gca aag cag ggc			483
2082	Lys Leu Arg Arg Lys Glu Glu Leu Trp Glu Lys Leu Ala Lys Gln Gly			
2083	145	150	155	
2085	gaa ctg ccc agg gat gtg cgc aag gca cag gcc cga ctc ctt agc cct			531
2086	Glu Leu Pro Arg Asp Val Arg Lys Ala Gln Ala Arg Leu Leu Ser Pro			
2087	160	165	170	175
2089	ccc aca cca aag gcc aaa cct ggg ccc cag gac atc att gag cga ccc			579
2090	Pro Thr Pro Lys Ala Lys Pro Gly Pro Gln Asp Ile Ile Glu Arg Pro			
2091	180	185	190	
2093	tcc tat gac ctc tgg aac cca gac aac cct ctg gac acg cct ttg att			627
2094	Phe Tyr Asp Leu Trp Asn Pro Asp Asn Pro Leu Asp Thr Pro Leu Ile			
2095	195	200	205	
2097	ggt cag gat gca ttt ttt ctg gaa cag acc aag aag aaa ggc gtg agg			675
2098	Gly Gln Asp Ala Phe Phe Leu Glu Gln Thr Lys Lys Gly Val Arg			
2099	210	215	220	
2101	cg _g cca caa cgc ctc cac atc aag cct tcc cag gtg cct gca gtg gag			723
2102	Arg Pro Gln Arg Leu His Ile Lys Pro Ser Gln Val Pro Ala Val Glu			
2103	225	230	235	
2105	gtg att cct gca gga gcc tcc tac aac cca acc ttt gaa gat cac cag			771
2106	Val Ile Pro Ala Gly Ala Ser Tyr Asn Pro Thr Phe Glu Asp His Gln			
2107	240	245	250	255
2109	gcc ctg ctt cga gag gcc cat gag gtg gag ctg cag cgt gag aaa gag			819
2110	Ala Leu Leu Arg Glu Ala His Glu Val Glu Leu Gln Arg Glu Lys Glu			
2111	260	265	270	
2113	gca gaa aag ctg gag cga cag ctg gcc ctg ccc acc tca gag caa gct			867
2114	Ala Glu Lys Leu Glu Arg Gln Leu Ala Leu Pro Thr Ser Glu Gln Ala			
2115	275	280	285	
2117	gcc acc cag gag tcc gtg ttt cgg gag atg tgt gag ggc ctg ctg gag			915
2118	Ala Thr Gln Glu Ser Val Phe Arg Glu Met Cys Glu Gly Leu Leu Glu			
2119	290	295	300	
2121	gag tct gat ggt gag gat gag cat gag gca ggc cgt gcc ggg cag cca			963
2122	Glu Ser Asp Gly Glu Asp Glu His Glu Ala Gly Arg Ala Gly Gln Pro			
2123	305	310	315	
2125	gag gct ggt gat ggg acc acc gag atc tca ccc act ggt gct gct ggt			1011
2126	Glu Ala Gly Asp Gly Thr Thr Glu Ile Ser Pro Thr Gly Ala Ala Gly			
2127	320	325	330	335
2129	cct gag aag agg atg gag aag aag acg gag cag cag cgg cgg cgg gag			1059
2130	Pro Glu Lys Arg Met Glu Lys Lys Thr Glu Gln Gln Arg Arg Arg Glu			
2131	340	345	350	
2133	aaa gct gct cgc aag ctg cgg gtg cag cag gct gca ctg agg gca gcc			1107
2134	Lys Ala Ala Arg Lys Leu Arg Val Gln Gln Ala Ala Leu Arg Ala Ala			
2135	355	360	365	

RAW SEQUENCE LISTING

DATE: 05/19/2003

PATENT APPLICATION: US/09/856,617B

TIME: 15:00:41

Input Set : A:\766.52.txt

Output Set: N:\CRF4\05192003\I856617B.raw

2137 cggttttccggcaccgaaatttcaggctgtgggatc aag gcc cag 1155
2138 Arg Leu Gln His Gln Glu Leu Phe Arg Leu Arg Gly Ile Lys Ala Gln
2139 370 375 380
2141 gtggcccgaggctggca gaa ctggca cgc cgg agg gag cag cgg cgc 1203
2142 Val Ala Arg Arg Leu Ala Glu Leu Ala Arg Arg Arg Glu Gln Arg Arg
2143 385 390 395
2145 ata cgg cga ctg gca gag gct gac aag ccc cga agg ctg gga cgg ctc 1251
2146 Ile Arg Arg Leu Ala Glu Ala Asp Lys Pro Arg Arg Leu Gly Arg Leu
2147 400 405 410 415
2149 aag tac cag gct cct gac att gat gtg cag ctc agc tct gag ttg tct 1299
2150 Lys Tyr Gln Ala Pro Asp Ile Asp Val Gln Leu Ser Ser Glu Leu Ser
2151 420 425 430
2153 ggc tca ctc agg aca ctg aag cca gaa ggt cac att ctc cga gac agg 1347
2154 Gly Ser Leu Arg Thr Leu Lys Pro Glu Gly His Ile Leu Arg Asp Arg
2155 435 440 445
2157 ttc aag agc ttc cag aag aga aat atg att gag ccc cga gaa cga gcc 1395
2158 Phe Lys Ser Phe Gln Lys Arg Asn Met Ile Glu Pro Arg Glu Arg Ala
2159 450 455 460
2161 aag ttc aag cgc aaa tac aaa gtg aag ctg gtg gag aag cgg gcc tac 1443
2162 Lys Phe Lys Arg Lys Tyr Lys Val Lys Leu Val Glu Lys Arg Ala Tyr
2163 465 470 475
2165 cgt gag att cag ttg tag ctgtgcagat g
2166 Arg Glu Ile Gln Leu
E--> 2167 480

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/856,617B

DATE: 05/19/2003
TIME: 15:00:42

Input Set : A:\766.52.txt
Output Set: N:\CRF4\05192003\I856617B.raw

L:2167 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1469 Found:1472 SEQ:8

2168

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